

NVDA/P000600

**IN THE CLAIMS:**

Please cancel claim 21 and amend the claims as follows:

**Claim 1 (Currently Amended)** A method of determining sub-pixel sample positions for a pixel position to reducing aliasing, comprising:

reading a programmed first sub-pixel offset value;

reading a programmed second sub-pixel offset value; and

computing a jittered sub-pixel sample position using the first sub-pixel offset value, the second sub-pixel offset value, and the pixel position $[[.]]$ , wherein the reading of the programmed first sub-pixel offset value and the second sub-pixel offset value is partially based on at least a portion of the pixel position and wherein the number of pixel offset values stored is dependent on the resolution of the image to be displayed.

**Claims 2-4** (Cancelled)

**Claim 5 (Original)** The method of claim 1, further comprising:

computing a depth value of a fragment for each jittered sub-pixel sample position.

**Claim 6 (Original)** The method of claim 1, further comprising:

determining sub-pixel sample coverage for a fragment associated with the pixel position.

**Claim 7 (Original)** The method of claim 1, further comprising:

computing a color value of a fragment.

**Claim 8 (Original)** The method of claim 7, wherein the color value of a fragment is computed at a sub-pixel position within a pixel boundary.

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**Claim 9 (Original)** The method of claim 7, wherein the color value of a fragment is computed at a pixel position within a pixel boundary.

**Claim 10 (Original)** The method of claim 1, further comprising:  
computing a color value of a fragment for each jittered sub-pixel sample position.

**Claims 11-21 (Cancelled)**

**Claim 22 (Previously Presented)** A method of determining sub-pixel sample positions for a pixel position on a backward compatible basis to reduce aliasing, the method comprising:

- determining pixel positions for a plurality of pixels in an image;
- determining a plurality of sub-pixel sample positions for each of the pixels;
- storing a number of sub-pixel offset values, selecting a sub-pixel offset value based on the position of the pixel related to the sub-pixel sample; and
- adding the selected sub-pixel offset value to one of the plurality of sub-pixel sample positions to determine a sub-pixel sample pattern on a backward compatible basis based on the pixel position being sampled.

**Claim 23 (Previously Presented)** A method as claimed in claim 22, wherein the number of pixel offset values stored is dependent on the resolution of the image to be displayed.

**Claim 24 (Previously Presented)** A method as claimed in claim 23, wherein the offset value also applied to the pixel position.

**Claim 25 (Previously Presented)** A method as claimed in claim 23, wherein the offset value is applied as both a horizontal and vertical offset to the X,Y pixel position.

**Claim 26 (Previously Presented)** A method as claimed in claim 22, wherein the offset values are stored in a lookup table having a length dependent on the desired period between use of the offset value.

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**Claim 27 (Previously Presented)** A method as claimed in claim 26, wherein the stored offset values are accessed using selected bits of the pixel position coordinates.

**Claim 28 (Previously Presented)** A method as claimed in claim 27, wherein the selected bits are two or more low bits of the pixel position coordinate.

**Claim 29 (Previously Presented)** A method anti-aliasing the edge of a primitive consistently between frames where the viewpoint has not changed comprising:

- determining pixel positions for a plurality of pixels in an image;
- determining a plurality of sub-pixel sample positions for each of the pixels;
- storing a number of sub-pixel offset values;
- selecting a sub-pixel offset value from the stored values based on the position of the pixel related to the sub-pixel sample;
- and adding the selected sub-pixel offset value to one of the plurality of sub-pixel sample positions to determine a sub-pixel sample pattern utilizing offset values selected non-sequentially to determine sub-pixel sample positions based on the coordinate position of each pixel along the edge of the primitive.

**Claim 30 (Previously Presented)** A method as claimed in claim 29, wherein the offset values are stored in a lookup table having a length dependent on the desired period between use of the offset value.

**Claim 31 (Previously Presented)** A method as claimed in claim 29, wherein the number of pixel offset values stored is dependent on the resolution of the image to be displayed.

**Claim 32 (Previously Presented)** A method as claimed in claim 31, wherein the stored offset values are accessed using selected bits of the pixel position coordinates.

**Claim 33 (Previously Presented)** A method as claimed in claim 32, wherein the selected bits are two or more low bits of the pixel position coordinate.